WHAT IS CLAIMED IS:

1. A mount method for joining a device to a substrate with soldering, characterized in that joint of said device and 5 said substrate through solder is performed in liquid.

2. The mount method as claimed in claim 1, wherein the joint based on said solder is performed while ultrasonic vibration is applied to said solder through the liquid.

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- 3. The mount method as claimed in claim 1, wherein the liquid is inactive to said device and said substrate.
- 4. The mount method as claimed in claim 1, wherein said 15 device is an optical device.
 - 5. The mount method as claimed in claim 1, wherein said device is a semiconductor device.
- 6. The mount method as claimed in claim 1, wherein said substrate is a semiconductor substrate.
 - 7. The mount method as claimed in claim 1, wherein said substrate is a substrate for mounting an electric element.

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- 8. The mount method as claimed in claim \ wherein said substrate is a ceramic substrate.
- 9. The mount method as claimed in claim 1, wherein said 30 substrate is a printed circuit board.

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10. A method of joining a substrate electrode formed on a substrate and a device electrode formed on a device to each other by solder to mount the device on the substrate, comprising the steps of:

attaching a solder piece to the substrate electrode;
melting the solder piece in liquid to form a solder bump;
matching the substrate electrode having the solder bump
formed thereon with the device electrode and disposing the device

so as to confront the substrate in the liquid;

positioning the device electrode to the substrate electrode by surface tension of the melted solder bump when the solder bump is melted in the liquid to join the device electrode and the substrate electrode to each other; and then solidifying the solder bump.

11. The method as claimed in claim 10, wherein when the solder piece is melted to form the solder bump, ultrasonic vibration is applied to the solder piece through the liquid.

12. The method as claimed in claim 10, wherein when the solder bump is melted in the liquid to join the device electrode and the substrate electrode to each other, ultrasonic vibration is applied to the solder bump through the liquid.

25 13. The method as claimed in claim 10, wherein the liquid is inactive to said solder, said device and said substrate.

5 14. The method as claimed in claim 10, wherein said device is an optical device.

15. The method as claimed in claim 10, wherein said device is a semiconductor device.

16. The method as claimed in claim 10, wherein said 5 substrate is a semiconductor substrate.

7. The method as claimed in claim 10, wherein said substrate is a substrate for mounting an electric element.

10 18: The method as claimed in claim 10, wherein said substrate is a ceramic substrate.

The method as claimed in claim 10, wherein said substrate is a printed circuit board.

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